# PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING INTERSECTION CONTROL BEACON TO BECOME A FULLY ACTUATED TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 28 AND MARTINSBURG ROAD IN MONTGOMERY COUNTY. MD 28 IS ASSUMED TO RUN IN A EAST-WEST DIRECTION.

# INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA FOUR-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH AN EXCLUSIVE-PERMISSIVE LEFT TURN PHASE FOR WESTBOUND MD 28. VIDEO DETECTION WILL BE USED.

THE SIGNAL SHOULD OPERATE IN FULL MODE DURING THE WEEKDAYS FROM 6 AM TO 6 PM, AND IN FLASHING MODE AT ALL OTHER TIMES, INCLUDING WEEKENDS

#### SPECIAL NOTE

(301) 513-7318

(301) 513-7350

UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF THE MSHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR MUST PROVIDE MR. SNYDER WITH THE NEAREST ADDRESS, ZIP CODE, AND PHONE NUMBER.

# CONTACT PERSONS FOR DISTRICT 3 ARE AS FOLLOWS:

MR. JEFF WENTZ ASSISTANT DISTRICT ENGINEER - TRAFFIC MR. WAYNE MOWDY ASSISTANT DISTRICT ENGINEER - MAINTENANCE

(301) 513-7304

MR. AUGIE REBISH ASSISTANT DISTRICT ENGINEER - UTILITIES

# CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR. CHIEF, TRAFFIC OPERATIONS

MR. EUGENE BAILEY TEAM LEADER SIGN OPERATIONS

(410) 787-7630

(410) 787-7676

MS. DARLENE EIDE

SUPPLY OFFICE

ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS

MR. ROBERT SNYDER

SIGNAL SHOP WAREHOUSE (410) 787-7631 (410) 787-7668

MR. ED RODENHIZER TEAM LEADER SIGNAL OPERATIONS (410) 787-7652

#### CONTACT PERSONS FOR MONTGOMERY COUNTY ARE AS FOLLOWS:

MR. KAMAL HAMUD

TRAFFIC MANAGEMENT CENTER

(240) 777-8761

MR. KEITH LORD TECHNICAL SUPERVISOR (301) 674-8965

EQUIPMENT LIST "A"

A EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

ITEM NO.

**DESCRIPTION** 

NONE

## EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

QUANTITY	DESCRIPTION
LS	MAINTENANCE OF TRAFFIC
2 CY	TEST PIT EXCAVATION
75 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - A
100 LF	5 INCH HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
60 LF	24 IN. WHITE HEAT APPLIED WHITE THERMOPLASTIC PAVEMENT MAI
1 EA	CONTROLLER AND CABINET - BASE MOUNT
1 EA	VIDEO INTERFACE EQUIPMENT
1 EA	FOUR-CHANNEL, TIME- DELAY-OUTPUT LOOP DETECTOR AMPLIFIER
25 EA	12 INCH LED SIGNAL HEAD SECTION
4 CY	CONCRETE FOUNDATION FOR SIGNAL
1 EA	BREAKAWAY PEDESTAL POLE - 10 FT.
6 EA	ELECTRICAL HANDHOLE
10 LF	1 IN. FLEXIBLE, LIQUID-TIGHT CONDUIT
925 LF	4 IN SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
50 LF	4 IN SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT- BORED
70 LF	2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
LS	REMOVE AND DISPOSE MATERIAL AND EQUIPMENT
2 EA	VIDEO DETECTION CAMERA AND CABLE
51 LF	WOOD SIGN SUPPORTS 4 IN. X 6 IN.
1 EA	METERED SERVICE PEDESTAL EMBEDDED
50 LF	ELECTRICAL CABLE 1 - CONDUCTOR (NO. 4 A.W.G.) - THHN /THWN
100 LF	ELECTRICAL CABLE 5 - CONDUCTOR (NO. 14 A.W.G.)
540 LF	ELECTRICAL CABLE 7 - CONDUCTOR (NO. 14 A.W.G.)
100 LF	ELECTRICAL CABLE 2 - CONDUCTOR (NO. 12 A.W.G.)
175 LF	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
6 EA	3/4 IN. X 10 FT. GROUND ROD
40 LF	SAW CUT FOR SIGNAL (LOOP DETECTOR)
2 EA	MICRO-LOOP PROBE
3 EA	W3-3 (36" X 36") WITH "NEW" PANEL (12" X 24")-GROUND MOUNT
270 LF	ELECTRICAL CABLE 1 - CONDUCTOR (NO. 250 KCMIL)

#### EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE MONTGOMERY COUNTY SIGNAL SHOP, SEVEN LOCKS ROAD AND WOOTEN PARKWAY. THE CONTRACTOR SHALL NOTIFY THE COUNTY AT (301) 279-1291 AT LEAST THREE DAYS IN ADVANCE OF THE DELIVERY.

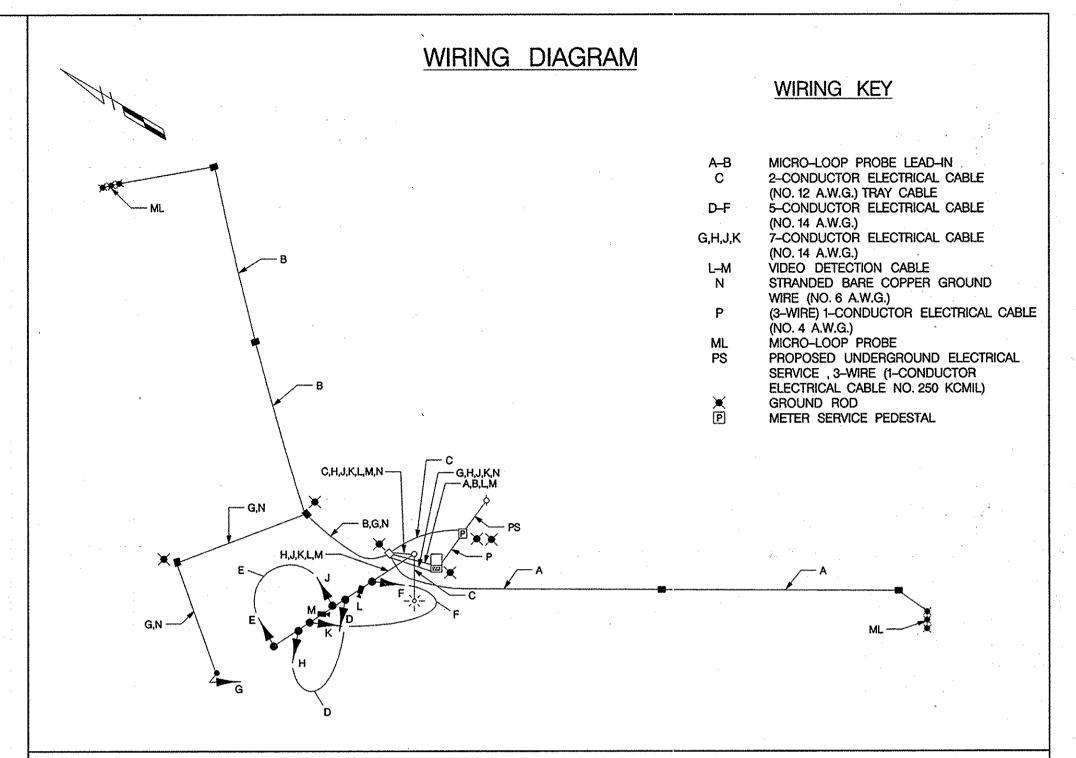
QUANTITY

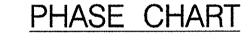
1 EA.

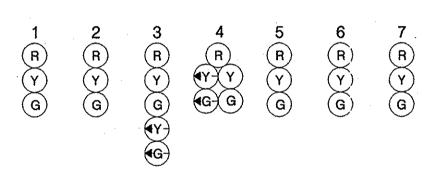
**DESCRIPTION** 

POLE MOUNTED CABINET AND CONTROLLER

ALL SIGNAL EQUIPMENT TO BE REMOVED AND NOT RETURNED TO THE SHA SHALL BECOME THE PROPERTY OF THE CONTRACTOR.







PHASE 2 & 6	G	G	G	G	Gì	R	R	
2 & 6 CHANGE	Y	Υ	Υ	Y	Υ	R	R	
PHASE 2 & 5 (LAG)	R	R	G <b>←</b> G−	G <b>∢</b> G−	Gi	R	R	
5 CHANGE	R	R	G ◆Y—	G ∢-Y	Gi	R	R	<b>√</b> <sub>⊥</sub>
PHASE 4	R	R	R	R <sup>-</sup>	R:	G	G	<b>, A</b>
4 CHANGE	R	R	R	R	F	Υ	Υ	\ \r
FLASHING OPERATION	FL\Y	FL\Y	FL\Y	FL\Y	FL\Y	FL\R	FL\R	

# SPECIAL PHASING NOTE

THE SIGNAL SHOULD OPERATE IN FULL MODE DURING THE WEEKDAYS FROM 6 AM TO 6 PM, AND IN FLASHING MODE AT ALL OTHER TIMES, INCLUDING WEEKENDS.



STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION PLAN MD 28 AND MARTINSBURG ROAD

# TRAFFIC CONCEPTS, INC.

325 Gambrills Road Suite E Gambrills, MD 21054 (410) 923-7101 FAX: (410) 923-6473 EMAIL: TRAFFIC@TRAFFIC-CONCEPTS.COM

SCALE NO	NE DATE _	1–29–08	CONTRACT NO	). <u>B</u> \	N 996	M82		
DESIGNED BY	T. ZAYDEL	COUNTY	MOI	MONTGOMERY				
DRAWN BY	T. ZAYDEL	LOGMILE				***************************************		
CHECKED BY	K. SCHMID	T.I.M.S. N	0.	I- 908				
F.A.P. NO.	A.P. NO. NA		TOD NO.			· · · · · · · · · · · · · · · · · · ·		
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